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AMINER'S INITIALS	PATENT NO.	DATE		NAME	CLASS	SUBCLASS			
9 4	2,745,953	5/56	Young						
ج س	3,819,872	6/74	Hamrick						
87	4,057,758	11/77	Hattori		, we ( we				
64	4,097,804	6/78	Yamaguchi	et al.					
φ·(	4,112,257	9/78	Frost						
627	4,152,647	5/79	Gladden et	al.	~~.				
27	4,211,894	7/80	Watanabe e	t al.					
E-4	4,222,115	9/80	Cooper et a	1.	- 40		ļ		
9.1	4,255,814	3/81	Osborn						
6.2 2	4,308,429	12/81	Kai et al.						
E 37	4,383,332	5/83	Glance et a	1.					
£ 7	4,398,063	8/83	Hass et al.		*				
	4,475,246	10/84	Batlivala et	al.					
94 94	4,490,830	12/84	Kai et al.		0	-			
\$ 4	4,516,269	5/85	Krinock						
g. c	4,596,042	6/86	Stangl						
SEC	4,633,519	12/86	Gotoh et a	l		3 - 49			
£ . <	4,642,633	2/87	Dunkerton	et al.					
5-2	4,644,560	2/87	Torre et al		•				
SAL	4,667,202	5/87	Kamerland	ler et al.		11 1-0			
E.c.	4,670,899	6/87	Brody et a	al.			200		
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ATTORNEY'S DRT NO.

027556-430

APPLICATION NO.

08/938,840

APPLICANT

Jan-Eric UDDENFELDT et al.

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INITIALS	PATENT NO. 4,675,863	6/87	Paneth et al.				
gn			Breeden				
	4,696,051	9/87		79.			
	4,696,052	9/87	Breeden				
	4,697,260	9/87	Grauel et al.				
	4,698,839	10/87	DeVaney et al.	· construction		<b></b> _	
	4,715,048	12/87	Masamura		gar i seri		
	4,718,081	1/88	Brenig	_	,		
	4,718,109	1/88	Breeden et al.	-			
	4,723,266	2/88	Perry	applicated (	J. 19		
	4,737,978	4/88	Burke et al.	s desired	-		
	4,759,051	7/88	Han				
	4,765,753	8/88	Schmidt				
	4,771,448	9/88	Koohgoli				
	4,811,380	3/89	Spear	3			
	4,850,032	7/89	Freeburg		,- "A"):		
_	4,852,090	7/89	Borth				
	4,856,048	8/89	Yamamoto et al.				
	4,901,307	2/90	Gilhousen et al.		//*		
	4,930,140	5/90	Cripps et al.				
	4,955,082	9/90	Hattori et al.				
<b>V</b>	4,984,247	1/91	Kaufmann et al.			iğ")	
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## INFORMATION DISCLOSURE CITATION

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APPLICANT

Jan-Eric UDDENFELDT et al.

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£ 44	5,022,049	6/91		Abrahamson et al.		; a ment			
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	5,095,531	3/92	Ito		, many to the state of the stat				
	5,101,501	3/92	Gilhousen et	al.		-m			
	5,103,459	4/92	Gilhousen et	al.					
	5,109,390	4/92	Gilhousen et	al.					
	5,124,698	6/92	Mustonen		·			•	
	5,126,748 6/92 5,128,959 7/92		Ames et al. Bruckert			ا معیادر			
					other magazine (	. ~-			
	5,179,571	1/93	Schilling		Name of the State				
	5,257,283	10/93	Gilhousen et al.			g galler of man			
	5,265,119	11/93	Gilhousen et	al.					
	5,267,261	11/93	Blakeney, II e	et al.					
	5,267,262	11/93	Wheatley III			with a			
	5,280,472	1/94	Gilhousen et	Gilhousen et al.  Wheatley, III et al.					
	5,383,219	1/95	Wheatley, III						
	5,437,055	7/95	Wheatley, III			None and the			
	5,452,473	9/95	Weiland et a	Weiland et al.					
. 8	5,461,639	10/95	Wheatley, III	Wheatley, III et al.					
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82	5,475,870	12/95	Weaver, Jr.		CLASS	SUBCLASS			
E-2	5,485,486	1/96	Gilhousen et	t al.					
627	5,490,165	2/96	Blakeney, II	et al.	~~	-			
€ 2	5,509,035	4/96	Teidelmann,	Jr. et al.	· · · ·	-			
54	5,513,176	4/96	Dean et al.						
97	5,519,761	5/96	Gilhousen						
67	5,528,593	6/96	English et al.			-			
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67	59-212041	11/84	Japan						
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04	60-52131	3/85	Japan		à n.	,			
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97	Bernhardt, R., U International Cor	Jser Access ir	n Portable Radio	o Systems in the N	Voise Limited E	Access to the second of the second	EE		
0,7	Bernhardt, R., R. Communications. pp. 65-71 (1986)	: Frequency		pic Diversity in Urations, IEEE Inte				ations,	
وي	Viterbi, A., Very Spectrum Multipl pp. 641-649 (199	le-Access Cha	Convolutional Co annels, IEEE Jo	odes for Maximun ournal on Selected	Theoretical Pe	erformance of S munications, V	Spread- 'ol. 8, 1	No. 4,	
04	Kerdock, A., A (187 (1972).	Class of Low	-Rate Nonlinear	Binary Codes, In	nformation and	Control, Vol.	20, pp.	182-	
€ 37	MacWilliams, F.	, et al., The	Theory of Error	-Correcting Code	es, Part I, pp. 9	93-124 (1977).			
ou	Macwilliams, F.,								
e27	Frenkiel, R., A H. Approach, IEEE	High-Capacity Transaction	y Mobile Radiot on Vehicular Te	elephone System echnology, Vol. V	<i>Model Using a</i> VT-19, No. 2, <sub>1</sub>	<i>Coordinated S</i> pp. 173-177 (1	mall-Zc 970).	ne	
en	Shefer, J. et al., VT-21, No. 4, pp	An X-Band V	Vehicle-Location	System, IEEE T				Vol.	
67	Morinaga, T., et the Electrical Con							riew o	
د د س	Spilker, J. Jr., et Engrs. 43, pp. 14			ninator-An Optim	um Tracking D	evice, Proc. In	st. Rad	io	
マラ	Sergo, J., et al., pp. 676-679 (197		l Simulation of a	ı PN Synchroniza	tion System, IE	EE Transaction	ıs Com	-18,	
چے 'ر	Okumura, Y., et Electr. Commun.				and UHF Land	l-Mobile Radio	Service	e, Ref	
(-27	Figel, W., et al., 109 (1969).				ethod, IEEE Tra	insactions VT-	18, pp.	105-	
EXAMINER	M.Q.			DATE CONSIDI	ERED 9/0.	100			

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5-2,	Nakajima, A., Ad Switching Sympo		Communicati	ion Network Basea	d on Signaling	System No. 7	, Interna	ational	
8-2, En	digital Radio, Pro	oceedings of the	E IEE, Vol. 68					ran	
67				nce on Fading Disp -21, No. 1 (1973).		ity Channels,	IEEE		
0-2		-		Digital Cellular Ro nology Conference	-	g at 300 KBIT	7S,		
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57	Herold, W., A Sn Zurich Seminar,		Telephone S	System with Code L	Division Multi	ple Access, Pro	oc. Inte	rnat.	
62	Stjernall, J-E et a AB, S-163 80 pp.			of a Narrowband T	TDMA System	, Ericsson Rad	io Syste	ems	
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82	<del></del>	hrichtentechnisc	he Zeitschrift	t, NTZ, 27, pp. 25	53-259 (1974)	1.			
جدر				ur die Frequenzoko EG, Ulm, pp. 41-		rsorgung Gros	ser Geb	riete,	
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